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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/970,917	10/04/2001	Todd Little		3141

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EXAMINER

WOOD, WILLIAM H

ART UNIT PAPER NUMBER

2193

DATE MAILED: 06/30/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 09/970,917	Applicant(s) LITTLE ET AL	
	Examiner William H. Wood	Art Unit 2193	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 04 April 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,2,6,8-10,41-52 and 55 is/are pending in the application.
- 4a) Of the above claim(s) 53 and 54 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,2,6,8-10,41-52 and 55 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claims 1, 2, 6, 8-10 and 41-55 are pending and have examined.

Restriction

1. Newly submitted claims 53 and 54 are directed to an invention that is independent or distinct from the invention originally claimed for the following reasons: the originally presented invention (now found in claims 1, 2, 6, 8-10, 41-52 and 55) is directed toward a system of application design models to be altered by a further specification and then the generation of application code; claims 53 and 54 are directed toward extending from a model business objects and further the process being based upon a feedback loop.

Since applicant has received an action on the merits for the originally presented invention, this invention has been constructively elected by original presentation for prosecution on the merits. Accordingly, claims 53 and 54 are withdrawn from consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP § 821.03.

Claim Objections

2. Claim 55 is objected to because of the following informalities: claim not in the form of a sentence. Appropriate correction is required.

Claim Rejections - 35 USC § 102

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3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

4. Claims 1, 2, 6, 8-10, 41-52 and 55 are rejected under 35 U.S.C. 102(e) as being anticipated by **Goodwin** et al. (USPN 6,199,195).

Claim 1

Goodwin disclosed a system for software application development and modeling, capable of being integrated with a software application design modeling tool, comprising:

an expert system for automatically

reading a software application design UML model conforming to the software application design model tool (*figure 3, elements 318, 320, 322, 324, 328, 330; column 3, lines 8-10 and 22-23; column 6, lines 38-41*),

reading a one or plurality of target application server design patterns (*figure 3, elements 318, 320, 322, 324, 328, 330; column 3, lines 8-10 and 22-23; column 6, lines 38-41; column 7, lines 32-39*),

enhancing the software application design UML model to conform to the target application server design patterns (*figure 3, elements 318, 320, 322, 324, 328, 330; column 3, lines 8-10 and 22-23; column 6, lines 38-41*), and

generating code implementations for the target application server defined by the enhanced software application design UML model (*figure 3, element 330*); and,

an interface to a software application design modeling tool for modeling said software application design UML model, wherein said modeling includes said reading of software application design UML model, said enhancing of software application design UML model, and said generating code implementations (*column 8, lines 6-19*).

Claim 2

Goodwin disclosed the system of claim 1 wherein said expert system further includes means for specifying application design requirements (*column 6, lines 32-36; column 7, lines 63-64*).

Claim 6

Goodwin disclosed the system of claim 1 wherein said expert system further includes means for generation of an application test client to verify the integrity of the generated and modified code (*column 8, lines 15-16*).

Claim 8

Goodwin disclosed the system of claim 1 wherein said expert system is provided as a plugin to the software application design modeling tool (*column 8, lines 14-19 and column 8, line 63 to column 9, line 3*).

Claim 9

Goodwin disclosed the system of claim 1 further comprising:

a database interface to allow retrieval of application design data from a relational database (*column 15, lines 14-15*);

an interface repository for storing interface definition language files (*column 10, lines 44-47*).

Claim 10

Goodwin disclosed the system of claim 1 further comprising:

means for engineering an interface definition language file to extract application design information (*column 11, lines 63-66; column 14, lines 47-50*).

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Claim 41

Goodwin disclosed the system according to claim 1 wherein said expert system further comprises means for generation of support files for the generated and modified code (*figure 3, element 330 produces outputs; also note figure 4*).

Claim 42

Goodwin disclosed the system of claim 1 wherein said expert system is provided as a add-in to the software application design modeling tool (*column 8, lines 14-19 and column 8, line 63 to column 9, line 3*).

Claim 43

Goodwin disclosed the system according to claim 1 wherein said expert system further comprises means for scanning said software application design UML model for correctness and completeness prior to generation of implementation code (*figure 5, parsers noted*).

Claims 44-52

The limitations of method claims 44-52 are substantially the same as for system claims 1, 2, 6, 8-10 and 41-43 and as such are rejected in the same manner.

Claim 55

Goodwin disclosed an expert system for software application development and modeling, comprising:

means for reading a software application design model conforming to the software application design model tool (*figure 3*);

means for automatically enhancing the software application design model to conform to target application server design patterns (*figure 3, templates*); and

means for automatically generating code implementations for the target application server defined by the enhanced software application design model (*figure 3, element 330*);

Response to Arguments

5. Applicant's arguments filed 04 April 2005 have been fully considered but they are not persuasive. Applicant argues **Goodwin** does not teach design patterns or enhancing the unified model to conform to design patterns. Upon review of **Goodwin**, it is clear the reference does provided the above asserted deficiencies. **Goodwin** makes use of templates to further develop (or enhance) the models (*figure 3*; and column 9, lines 4-16; column 6, lines 29-46). Thus, having addressed Applicant's raised issues, the rejections are maintained as above indicated.

Conclusion

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6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

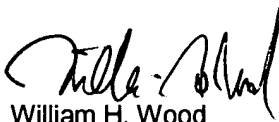
A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

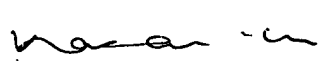
Correspondence Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William H. Wood whose telephone number is (571)-272-3736. The examiner can normally be reached 9:00am - 5:30pm Monday thru Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki can be reached on (571)-272-3719. The fax phone numbers for the organization where this application or proceeding is assigned are (703)872-9306 for regular communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)305-3900.


William H. Wood
June 27, 2005


KAKALI CHAKI
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100